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> **U.S. DEPARTMENT OF AGRICULTURE** AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C

OBJECTIVE DESCRIPTION OF VARIETY Soybean (Glycine max (L.) Merr.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country)	FOR OFFICIAL USE ONLY PVPO NUMBER	
	tal character of this variety in the spaces below. 9) when number is either 99 or less or 9 or less respurative data should be determined from varieties entered plant colors; designate system used	in the same trial. Royal Horticultural Society or any
A. MORPHOLOGY: Seed Shape: 1 = Spherical (L/W, L/T, and T/W ratios < 1.2) 3 = Elongate (L/W ratio > 1.2; T/W ratio < 1.2)	2 = Spherical-Flattened (L/W ratio > 1.2; L/T ratio < 1.2) 4 = Elongate-Flattened (L/T ratio > 1.2; L/W ratio > 1.2)	
Seed Coat Color: * 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (Specify)	
Seed Coat Luster: 1 = Dull 2 = Shiny		
Seed Size: * grams/100 seeds		
Hilum Color: *	4 = Gray 5 = Imperfect Black 6 = Black	

A. MORPHOLOGY: (continued)	
Cotyledon Color: *	
Seed Protein Peroxidase Activity:	
* 1 = Low 2 = High	
Hypocotyl Color:	
* 1 = Green 2 = Green with Bronze 3 = Light Purple 4 = Dark Purple extending to ('Evans' or 'Davis') Bands below Cotyledon below Cotyledons unifoliolate leaves (Hodgson', ('Woodworth' or 'Tracy') ('Beeson' or 'Pickett 71') 'Coker', or 'Hampton 266A')	
Leaf Shape:	
* 1 = Lanceolate 2 = Oval 3 = Ovate 4 = Other (Specify)	
Flower Color:	
* 1 = White 2 = Purple 3 = White with a Purple Throat	
Pod Color: * 1 = Tan 2 = Brown 3 = Black	
Pubescence Color:	
* 1 = Gray 2 = Brown (Tawny) 3 = Light Tawny	
Plant Habit: * 1 = Determinate 2 = Semi-determinate 3 = Indeterminate 4 = Intermediate	
Maturity Group:	
*	
Maturity Subgroup:	
* Please enter a value from 0-9	
B. DISEASE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant	
NOTE: Failure to supply information for at least 5 of the following disease reactions will result in significant delay in issuance of	the
certificate. Items denoted by and asterisk are the disease reactions most useful in the examination process.	
Bacterial * Destacial Bustula (Yanthamanaa aannaattia nuu ahairaa (Nahana) Bus)	
* Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye) * Resterial Plight (Pasudamenas syringas pv. glycines (Caerner) Vauna Dye & Wilkie)	
* Bacterial Blight (<i>Pseudomonas syringae</i> pv. <i>glycinea</i> (Coerper) Young, Dye, & Wilkie) * Wildfire Blight (<i>Pseudomonas syringae</i> pv. <i>tabaci</i> (Wolf & Foster) Young, Dye, & Wilkie)	
Fungal * Brown Spot (Septoria glycines Hemmi)	
* Frogeye Leaf Spot (Cercospora sojina Hara)	
race 1 race 2 race 3 race 4	
race 5 race 6 race 7 Important: Any other races tested (Please Specify)	

B. DISEASE REACTIONS: (continued)													
Target Spot (Corynespora cassiicola (Berk. & Curt.) Wei)													
Downy Mildew (<i>Peronspora trifoliorum</i> var. <i>manchurica</i> (Naum.) Syd. Ex Gäum)													
Powdery Mildew (<i>Microsphaera diffusa</i> Cke. & Pk.)													
	Brown Stem Rot (<i>Phialophora gregata</i> (Allington & Chamberlain) W. Gams.)												
* Stem Canker (<i>Diaporthe phaseolorum</i> (Cke. & Ell.) Sacc.var. caulivora Athow & Caldwell) * Red and Stem Blight (<i>Diaporthe phaseolorum</i> (Cke. & Ell.) (Sees. Var. saise (Lehman) Wahn	\												
Pod and Stem Blight (<i>Diaportne phaseolorum</i> (Cke. & Ell.) (Sacc. var. sojae (Lenman) wenr	m.)												
Purple Seed Stain (<i>Cercospora kikuchii</i> (T. Matsu. & Tomoyasu) Gardener)													
☐ Rhizoctonia Root Rot (<i>Rhizoctonia solani</i> Kühn)													
Presence of genes coding for reaction to Phytophthora Root Rot													
, , , , , , , , , , , , , , , , , , , ,	Rps1-e Pl 172.907)												
Rps1-k Rps2 Rps3-a Rps3-b Rps3-c	1172.507)												
☐ Rps4 ☐ Rps5 ☐ Rps6 ☐ Rps7 ☐ Rps?													
(PI 86.050) (PI 91.160) (Altona) (Harosoy) (Nezumisaya, OX93	39, OX940)												
*Phytophthora Root Rot (Phytophthora sojae (Kaufmann & Gerdemann)													
race 1 race 2 race 3 race 4 race 5 race 5	ace 6												
race 7 race 8 race 9 race 10 race 11 race 11	ace 12												
race 13 race 14 race 15 race 16 race 17 race 17	ace 18												
race 19 race 20 race 21 race 22 race 23 race 23	ace 24												
race 25 race 26 race 27 race 28 race 29 race 29	ace 30												
race 31 race 32 race 33 race 34 race 35 race 35	ace 36												
race 37 race 38 race 39 race 40 race 41 race 41	ace 42												
race 43 race 44 race 45 Important: Any other races tested (Ple	ease Specify)												
☐ Bud Blight (Tobacco Ringspot Virus)													
Yellow Mosaic (Bean Yellow Mosaic Virus)													
* Cowpea Mosaic (Cowpea Chlorotic Virus)													
Pod Mottle (Bean Pod Mottle Virus)													
* Seed Mottle (Soybean Mosaic Virus)													
Nematode													
*Soybean Cyst Nematode (<i>Heterodera glycines</i> Ichinohe)													
race 1 race 9													
race 2 race 5 race 14													
race 3 race 6 Important: Any other races tested (Please Specify)													
Lance Nematode (<i>Hoplolaimus columbus</i> Sher)													
Southern Root Knot Nematode (<i>Meliodogyne incognita</i> (Kofoid & White) Chitwood)													
Northern Root Knot Nematode (<i>Meliodogyne hapla</i> Chitwood)													

В. [DISEASE REACTIONS: (continued)							
г								
Ļ	Peanut Root Knot Nematode (<i>Meliodogyne arenaria</i> (Neal) Chitwood)							
Ļ	Reniform Nematode (<i>Rotylenchus reniformus</i> Linwood & Olivera)							
Ļ	Javanese Nematode (<i>Meliodogyne javanica</i> (Treub) Chitwood)							
L	Important: Other Nematodes tested (Please Specify)							
C. I	PHYSIOLOGICAL RESPONSES: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant							
	Iron Chlorosis on Calcareous Soil							
	Phosphorus Important: Other (Please Specify)							
	Boron							
	Aluminum							
Ī	Salt							
Ī	Drought							
D. I	NSECT REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant							
	Mexican Bean Beetle (<i>Epilachna varivestis</i> Mulsant)							
Ĺ	Potato Leaf Hopper (<i>Empoasca fabae</i> (Harris))							
L	Important: Other (Please Specify)							
E. H	HERBICIDE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant							
Γ	Metribuzin							
Ī								
Ī	Bentazone							
* [Sulfonylurea							
Г	Glyphosate							
L r	Glufosinate							
L								
L	Important: Other (Please Specify)							
	Pendimethalin Important: Other (Please Specify)							

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Has the development of the subject variety included the insertion of genetic material from an organism other than a soybean, or, the removal of genetic material from the application variety?

If yes, please complete the following information requests*. Use additional pages if necessary.

1. Please state the vector's name:

2. Please state the vector components:

3. Please describe the genetic material successfully transferred into the subject variety:

4. Please describe the insertion protocol:

^{*} A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS:

Please describe any additional genetic and/or biochemical information which you believe will be helpful in further describing the subject variety here (e.g., Single Nucleotide Polymorphisms (SNPs), Simple Sequence Requests (SSRs), Restriction Fragment Length Polymorphisms (RLFPs) Isozyme profiles, etc.). Use additional pages if necessary.

H. STATISTICAL DATA FOR APPLICATION AND CITED MOST SIMILAR VARIETY:

(Give paired comparison data)

Variety	No. of Days	Plant Height	See	d Content	Statistical Test (e.g. LSD. Std. error, ANOVA, Mann-Whitney u-test or Kruskal-Wallis Test, Etc.)
	Maturity (cm)	% Oil	% Protein	Value (95 or > Probability level)	
Application Variety					
Year/Location 1					
Year/Location 2					
Cited Most					
Similar variety					
Year/Location 1					
Year/Location 2					

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